

10/513699

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Classification Data
NEWS 11 FEB 02 Simultaneous left and right truncation (SLART) added
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NEWS 12 FEB 02 GENBANK enhanced with SET PLURALS and SET SPELLING
NEWS 13 FEB 06 Patent sequence location (PSL) data added to USGENE
NEWS 14 FEB 10 COMPENDEX reloaded and enhanced
NEWS 15 FEB 11 WTEXTILES reloaded and enhanced
NEWS 16 FEB 19 New patent-examiner citations in 300,000 CA/CAPLUS
patent records provide insights into related prior
art
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NEWS 20 FEB 23 TOXCENTER updates mirror those of MEDLINE - more
precise author group fields and 2009 MeSH terms
NEWS 21 FEB 23 Three million new patent records blast AEROSPACE into
STN patent clusters
NEWS 22 FEB 25 USGENE enhanced with patent family and legal status
display data from INPADOCDB
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	ENTRY	SESSION
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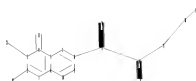
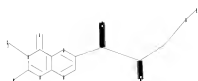
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=>
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10/513699



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11 12 13 14 15 16 17 18 19 21
ring nodes :
1 2 3 4 5 6 7 8 9 10
chain bonds :
2-12 3-21 4-11 8-13 13-14 13-15 15-16 15-17 17-18 18-19
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10
exact/norm bonds :
1-2 1-6 2-3 2-12 3-4 3-21 4-5 4-11 13-14 15-16 17-18
exact bonds :
8-13 13-15 15-17 18-19
normalized bonds :
5-6 5-7 6-10 7-8 8-9 9-10
isolated ring systems :
containing 1 :
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G1:C,H

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Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS
19:CLASS 21:CLASS
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L1 STRUCTURE UPLOADED

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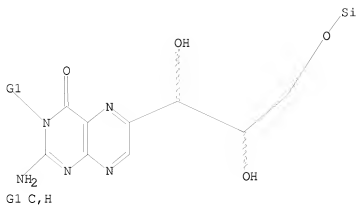
L1 HAS NO ANSWERS

L1 STR

<12/04/2007>

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Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 14:30:44 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 2 TO ITERATE

100.0% PROCESSED 2 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 2 TO 124

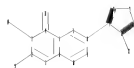
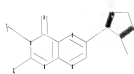
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

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ring nodes :
1 2 3 4 5 6 7 8 9 10 16 17 18 19 20
chain bonds :
2-12 3-14 4-11 8-17 16-21
ring bonds :
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19-20
exact/norm bonds :
1-2 1-6 2-3 2-12 3-4 3-14 4-5 4-11 16-17 16-20 17-18 18-19 19-20
exact bonds :
8-17 16-21
normalized bonds :
5-6 5-7 6-10 7-8 8-9 9-10
isolated ring systems :
containing 1 :
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G1:C,H

G2:S,N

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Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 12:CLASS 14:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:CLASS
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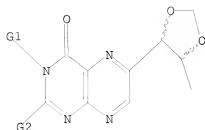
L3 STRUCTURE UPLOADED

<12/04/2007>

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L3 HAS NO ANSWERS
L3 STR



G1 C,H
G2 S,N

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=> s 13 full
FULL SEARCH INITIATED 14:34:07 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 19 TO ITERATE

100.0% PROCESSED 19 ITERATIONS 6 ANSWERS
SEARCH TIME: 00.00.01

L4 6 SEA SSS FUL L3

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COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 188.76 188.98

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FILE COVERS 1907 - 1 Mar 2009 VOL 150 ISS 10
FILE LAST UPDATED: 27 Feb 2009 (20090227/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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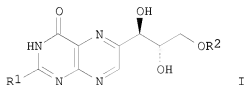
=> s l4 full

L5 5 L4

=> d ibib abs hitstr tot

L5 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2005:472157 CAPLUS
 DOCUMENT NUMBER: 143:7534
 TITLE: Preparation of tetrahydrobiopterin and analogs of tetrahydrobiopterin
 INVENTOR(S): Moser, Rudolf; Groehn, Viola; Schumacher, Andreas; Martin, Pierre
 PATENT ASSIGNEE(S): Biomarin Pharmaceutical Inc., USA; Merck Eprova A.-G.
 SOURCE: PCT Int. Appl., 55 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005049614	A2	20050602	WO 2004-US38313	20041117
WO 2005049614	A3	20070308		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004290692	A1	20050602	AU 2004-290692	20041117
CA 2545484	A1	20050602	CA 2004-2545484	20041117
EP 1776364	A2	20070425	EP 2004-819154	20041117
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, HR, LT, LV, MK, YU				
JP 2007534637	T	20071129	JP 2006-539994	20041117
US 20070244322	A1	20071018	US 2007-579106	20070216
PRIORITY APPLN. INFO.:				P 20031117
				US 2003-520367P
				P 20031117
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				W 20041117
				WO 2004-US38313
OTHER SOURCE(S):	CASREACT 143:7534; MARPAT 143:7534			
GI				



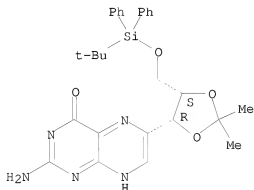
AB A process for the preparation of tetrahydrobiopterin and its analogs, e.g. I
 [R1 = alkylamino, arylamino, alkylthio, alkylaminomethyleneimino, R2 = H;
 R1 = alkylamino, alkylthio, Me2NCH2N, R2 = Me2CHET2Si, (Me3CO)Ph2Si,

MePh₂Si, Me₃CMe₂Si, Me₃C(MeO)PhSi, (Me₃C)₂MeSi, etc.], from neopterin and/or 6-substituted pterins with an improved yield and a high stereoselectivity is disclosed. Also disclosed herein are novel individual intermediates prepared in the preparation of tetrahydrobiopterin, such as selectively protected neopterin useful for the preparation of tetrahydrobiopterin. As an example, L-neopterin was reacted with DMF-acetal to give the 2-(dimethylamino)methylene derivative I (R₁ = Me₂NCH=N, R₂ = H) (II). II was then silylated to I (R₂ = Me₃CPh₂Si) which could be deprotected to I (R₁ = NH₂).

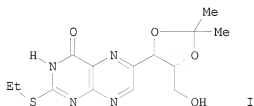
IT 852547-48-9P
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
 (preparation of tetrahydrobiopterin and analogs)

RN 852547-48-9 CAPLUS
 CN 4(3H)-Pteridinone, 2-amino-6-[(4R,5S)-5-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-2,2-dimethyl-1,3-dioxolan-4-yl]-(CA INDEX NAME)

Absolute stereochemistry.

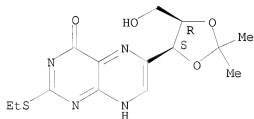


L5 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2000:499841 CAPLUS
 DOCUMENT NUMBER: 133:207729
 TITLE: Synthesis of 2-ethylthio-6-(3-hydroxy-1,2-O-isopropylidenepropyl)pteridin-4(3H)-one
 AUTHOR(S): Kang, Yonghan; Kim, Seungjin; Myoung, Youngchan; Baek, Daejin
 CORPORATE SOURCE: Department of Chemistry, Hanyang University, Ansan, 425-791, S. Korea
 SOURCE: Heterocycles (2000), 53(7), 1551-1557
 CODEN: HTCYAM; ISSN: 0385-5414
 PUBLISHER: Japan Institute of Heterocyclic Chemistry
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 133:207729
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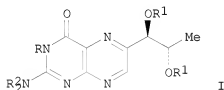
AB A strategy has been described for the synthesis of 2-ethylthio-6-(3-hydroxy-1,2-O-isopropylidenepropyl)pteridin-4(3H)-one (I), which can be used as a useful intermediate for the conversion of neopterin to biopterin.
 IT 290370-92-2P
 RL: SPN (Synthetic preparation); PREP (Preparation) (synthesis of 2-ethylthio-6-(3-hydroxy-1,2-O-isopropylidenepropyl)pteridin-4(3H)-one, a useful intermediate in the synthesis of biopterin)
 RN 290370-92-2 CAPLUS
 CN 4(3H)-Pteridinone, 2-(ethylthio)-6-[(4S,5R)-5-(hydroxymethyl)-2,2-dimethyl-1,3-dioxolan-4-yl]- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1995:536893 CAPLUS
 DOCUMENT NUMBER: 122:314347
 ORIGINAL REFERENCE NO.: 122:57165a,57168a
 TITLE: Pteridines CV. Selective N(3)- and O4-alkylation of L-biopterin: A convenient synthesis of 3- and O4-methyl-L-biopterin and the versatile N2-(N,N-dimethylaminomethylene)-N(3)-p-nitrophenethyl-protected L-biopterin
 AUTHOR(S): Hanaya, Tadashi; Torigoe, Kiyoshi; Soranaka, Kazuyuki; Yamamoto, Horoshi; Qizheng, Yao; Pfleiderer, Wolfgang
 CORPORATE SOURCE: Faculty Science, Okayama University, Okayama, 700, Japan
 SOURCE: Pteridines (1995), 6(1), 1-7
 CODEN: PTRDEO; ISSN: 0933-4807
 PUBLISHER: International Society of Pteridinology
 DOCUMENT TYPE: Journal
 LANGUAGE: English
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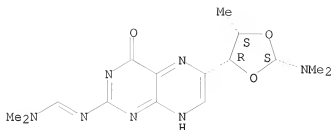


AB Treatment of L-biopterin with N,N-dimethylformamide dimethyl- (or diethyl)acetal and then with acetic anhydride in pyridine gave 1',2'-di-O-acetyl-N2-(N,N-dimethylaminoethyl)-L-biopterin, which was converted by the Mitsunobu reaction into 3-Me and 3-p-nitrophenethyl derivs. The protective groups on the side chain diols and N2 of these compds. were selectively cleaved to furnish biopterins I (R = Me, R1 = H, R22 = CHNMe2; R = 4-O2NC6H4CH2CH2, R1 = H, R22 = CHNMe2; R = Me, 4-O2NC6H4CH2CH2, R1 = R2 = H), among which I (R = Me, R1 = R2 = H) is naturally occurring 3-methyl-L-biopterin and I (R = 4-O2NC6H4CH2CH2, R1 = H, R22 = CHNMe2) is N2,N(3)-protected biopterin, a versatile intermediate for various reactions on the side-chain diol. In contrast, the same Mitsunobu reactions of tri-N2:1',2'-O-acetyl-L-biopterin afforded O4-Me and O4-NPE derivs., both of which yielded O4-methyl-L-biopterin and subsequently led to 4-amino-L-biopterin.

IT 163132-77-2P 163252-46-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of alkyl biopterins)
 RN 163132-77-2 CAPLUS
 CN Methanimidamide, N'-[6-[2-(dimethylamino)-5-methyl-1,3-dioxolan-4-yl]-3,4-dihydro-4-oxo-2-pteridinyl]-N,N-dimethyl-,
 [2S-(2a,4a,5a)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.

10/513699

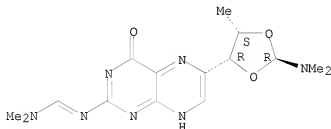


RN 163252-46-8 CAPLUS

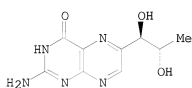
CN Methanimidamide, N'-[6-[2-(dimethylamino)-5-methyl-1,3-dioxolan-4-yl]-3,4-dihydro-4-oxo-2-pteridinyl]-N,N-dimethyl-, [2R-(2α,4β,5β)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

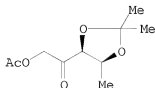
Double bond geometry unknown.



L5 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1990:55443 CAPLUS
 DOCUMENT NUMBER: 112:55443
 ORIGINAL REFERENCE NO.: 112:9511a,9514a
 TITLE: Synthesis of (-)-biopterin using (S)-ethyl lactate as a starting material
 AUTHOR(S): Kikuchi, Haruhiko; Mori, Kenji
 CORPORATE SOURCE: Dep. Agric. Chem., Univ. Tokyo, Tokyo, 113, Japan
 SOURCE: Agricultural and Biological Chemistry (1989), 53(8), 2095-100
 CODEN: ABCHA6; ISSN: 0002-1369
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 112:55443
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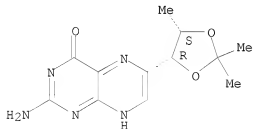


III

AB (-)-Biopterin (I) was synthesized from (1S,2S)-1-(1,3-dithian-2-yl)propane-1,2-diol (II), which was derived from com. available Et (S)-lactate. II was converted to ketone III through a six-step sequence. III was submitted to condensation with 3,5,6-triaminopyrimidinol, and followed by oxidation to afford isopropylidenebiopterin which was deprotected to give I.

IT 124600-40-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and deblocking of)
 RN 124600-40-4 CAPLUS
 CN 4(1H)-Pteridinone, 2-amino-6-(2,2,5-trimethyl-1,3-dioxolan-4-yl)-, (4R-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L5 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1972:126936 CAPLUS

DOCUMENT NUMBER: 76:126936

ORIGINAL REFERENCE NO.: 76:20553a,20556a

TITLE: Pterin chemistry. 41. New synthesis of DL-biopterin

AUTHOR(S): Viscontini, M.; Frei, W. F.

CORPORATE SOURCE: Org.-Chem. Inst., Univ. Zurich, Zurich, Switz.

SOURCE: Helvetica Chimica Acta (1972), 55(2), 574-9

CODEN: HCACAV; ISSN: 0018-019X

DOCUMENT TYPE: Journal

LANGUAGE: German

AB D,L-Biopterin was prepared in .apprx.40% yield by condensing D,L-2,3-O-isopropylidene-4-methylerythrulose (I) with 2,4,5-triamino-6-hydroxypyrimidine, and oxidation with air to give D,L-1',2'-O-isopropylidenebiopterin. The isopropylidene protective group was easily hydrolyzed off to give isomer-free D,L-biopterin. I was prepared by oxidizing trans-crotonic acid to D,L-erythro-2,3-dihydroxybutyric acid, and introducing the protective group before the extra C.

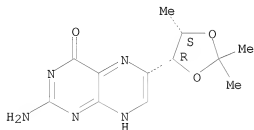
IT 36183-32-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 36183-32-1 CAPLUS

CN 4(3H)-Pteridinone, 2-amino-6-[(4R,5S)-2,2,5-trimethyl-1,3-dioxolan-4-yl]-,
rel- (CA INDEX NAME)

Relative stereochemistry.



10/513699

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	ENTRY	SESSION
CA SUBSCRIBER PRICE	-4.10	-4.10

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L1	STRUCTURE UPLOADED
L2	0 S L1
L3	STRUCTURE UPLOADED
L4	6 S L3 FULL

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L5 5 S L4 FULL

FILE 'STNGUIDE' ENTERED AT 14:35:22 ON 01 MAR 2009

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.63	218.81
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
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